

INTERCOURSE RACE TOMORROW AT GYM

**Senior Chemical Engineers
Challenge Accepted By
Four Teams**

TWO FRESHMEN TEAMS

**Medley Relay Race a New Feature
Five Teams in Already and
More Forming**

A new feature of the indoor track season at the Institute is a series of relay races among the different courses, to be run at the Gym tomorrow afternoon. The movement was started by the Course X seniors, who recently issued a challenge to any course in any one year. A medley relay race is the event and consists of relays of three, five, seven and nine laps around the track in the Gym, making a total of twenty-four laps, or a distance of approximately 11.4 miles. This combination of distances will make the scheme of considerable advantage to the men who are training for the winter meet and the open B. A. A. meet later on, as the various relays correspond respectively to the 220-yard, 440-yard, and 880-yard dashes and the 880-yard run.

Acceptances of the challenge have been received from four teams and other teams are now being formed. As it will be impossible to run off all the races tomorrow, the day originally set for the race, Coach Kanaly has decided to run a series of races. The first one will take place tomorrow at four o'clock between the Course X seniors and the Course I freshmen. On the senior team are:—Carl W. Gram, captain of the track team and holder of the N. E. I. A. A. record for the 220-yard dash; C. S. Robinson, who was on the 1909 sophomore relay team; C. L. Campbell, who has been doing good work at the mile and in cross-country work; and J. N. Stephenson, who has been on the varsity cross-country team for two years, and ran on last year's track team. The freshmen will be ably represented by C. L. Tuller, S. E. Reed, M. A. Oettinger and J. S. Grant. These men were all members of this year's freshman relay team. Some preliminary work has been done by all the men, and a fast race is sure to occur.

Acceptances have also been received from three other teams. The Course I seniors have L. D. Nisbet, who led the bunch for the first half of the quarter mile in the fall meet; H. H. Howland, who holds the 8-mile record and who has been a member of all the athletic teams for which he has tried; J. F. McCarthy, who is a member of two varsity cross-country teams of last year's track team; and C. L. Batchelder, who ran on the cross-country team last year. A fine team has appeared from Course VI juniors, consisting of:—A. L. Moses, who won his "T" in relay work; L. O. Mills, who is captain of the cross-country team and a star miler; G. B. Cumings, one of the best quarter

(Continued on page 4.)

STONE & WEBSTER WIN

**Firm of Tech Men to Clear up
N. Y. Trolley Tangle**

The Stone & Webster Corporation has been appointed to the important position of straightening out the entanglement of the Interborough-Metropolitan Street Railway system in New York City. The Stone & Webster Corporation is composed of Charles A. Stone, Edwin S. Webster and Russell Robb, all of 1888, and Henry G. Bradlee of 1891. The extreme complexity of the street railway problem in New York City and its reference to the Stone & Webster Corporation for solution is one of the highest compliments which has been paid to its members, and the institution from which they graduated.

WALKER MEMORIAL WILL CONTAIN GYM

**Present one Crowded Owing
to Freshmen Physical
Requirements**

FEATURES OF UNION

**New Building Will Have Dining
Club, Lounging Rooms and
Swimming Tank**

The conflict which occurs this term between the freshman physical training classes and the track and basketball teams has raised the cry for new and larger quarters for the winter athletic work. Under existing conditions the track men have to be content with Wednesdays and Saturdays while the basketball teams, including the varsity, varsity 2nd, and two class teams have only 5:45-6:15 P. M. in which to practice.

Many men do not realize that this cramming is due to the fact that the Institute may move its location at any time in the next few years and it is therefore useless to provide a new and more commodious gymnasium until this move has taken place.

The Walker Memorial Fund was raised to provide a satisfactory gymnasium, combined with a Union. The Alumni raised a fund as a memorial for General Amasa A. Walker, president of the Institute, following President Rogers, and this sum, originally amounting to about \$100,000, has been increased by interest and further subscriptions until it has become over \$125,000.

The Alumni Committee, in charge of the Walker Memorial, hope to build as soon as the Institute has secured a new site. Their plan is to have a large dining hall, like that in the present Union, and a big gymnasium, while there will be a number of smaller rooms—lounges, reading rooms, changing rooms and possibly a swimming tank. Quarters planned somewhat on the lines of the B. A. A. clubhouse on Exeter street, will then be provided for the students of the Institute. Several of the features of the new Dartmouth gym will probably be incorporated into the design.

What the advantages of a large gymnasium are, are so obvious that they need not be dwelt upon at length. It is hoped that there will be sufficient room for basketball and gymnasium work or physical training to go on simultaneously at either end of the floor.

Track work will be provided for by padded track, running around the room and raised on a gallery so as to avoid all interference from medicine or basketballs or men using chest-weights along the side walls.

Not only will the men be able to run without danger of obstructions, but the track will be larger, probably 12 or 13 laps to the mile, instead of 20, and this will mean easier corners and less chance of jostling and foul play.

Several of the large colleges use their gymnasiums for the Junior Prom, and the same use will probably be made of the Walker Memorial Gym.

The erection of this Gym will settle many of the problems that beset athletics in the winter months and other expedients will be merely temporary.

WILL BACK PORTFOLIO

Only two votes were cast for the negative of the motion put to the class of 1909, as to whether the class should assume the financial responsibility of getting out the senior portfolio. The class will have supervision of the committee through its executive committee. The portfolio committee as elected, consists of Harry A. Whittaker, A. L. Shaw, William J. Kelly, J. W. Nickerson and C. N. Harrub.

SENIORS SEE THE OLD YEAR OUT

**New Plan of Holding Usual
Gathering at New Union
a Great Success**

DARKY QUINTET GOOD

**Makes Many Hits with Popular
Songs, Clever Dancing
and Good Jokes**

A novelty in the way of New Year's eve entertainments was enjoyed by more than a hundred seniors last night in the Union. The former custom has been to have a theatre party and then after a dinner, to sing the old year out on Rogers steps.

This year the recently appointed entertainment committee tried to have a more democratic affair, by giving the affair by subscription and furnishing the entertainment and refreshments from this fund.

President Critchett said that the entertainers would introduce themselves. They proved to be "Stewart and Washington, the smoke-talk Kings." Before the regular program began a picture of the class was taken.

The first number was a song entitled "In the Right Church, but the Wrong Pew." This was followed by some first-class cake walking. The song "If You Don't Help Me, Don't Help the Bear," and "Born, Born, Buddy the Chocolate Drop," as sung by Buddy were varied by clog dances. Much merriment was caused by the hit on Bill Jones in "That Was Me." The darkies got off some clever jokes on each other.

When the pianist found a Tech song book open at "Dear Old M. I. T.," he found an enthusiastic audience, and the song was sung with a vim.

A pleasant feature of the evening was the visit of a dozen 1906 men who had been having a class dinner at the Technology club. Class cheers were exchanged. Supper was served at 11 o'clock. About 11:45 P. M., every one marched to Rogers steps and there President Critchett led the songs and cheers till the church bells told that the old year had gone and the long anticipated 1909 had come at last.

GRANT TO PROF. NOYES

The Carnegie Institution of Washington has recently made to Prof. A. A. Noyes a grant of \$3000 to be used in promoting the researches on the properties of solutions in relation to the ionic theory which are being carried on in the research laboratory of physical chemistry of the Institute. This is the sixth grant which has been made by the Institution for this purpose.

New inventories for the New England Telephone Company and the Massachusetts Highway Commission are being made by men from the electrical department of the Institute.

MAY LOSE N. E. I. A. A.

From authoritative sources it is stated that the New England Intercollegiate track meet will not be held at Tech field this year. Every effort is being made by Frank H. Bigelow of Worcester to revive the custom of holding the meet at the Oval in Worcester, where they have been held for many years up to last year.

The chief difficulty encountered by pective date, May 15, 1909, is in the Mr. Bigelow is the fact that his prospect of the baseball season of Holy Cross College. Recalling the difficulties their track team had when applying for admission to the association, they will no doubt be slow in submitting to Mr. Bigelow's suggestion and cancelling the baseball game already scheduled for this date.

MERRY YULE LOG BLAZES IN UNION

**Prof. Bates Read Christmas
Carol—Dr. Noyes Master
of Ceremonies**

CHRISTMAS TREE GIFTS

**Quartet Singing "Song for the
Yule Log" Brings in
Wassail Bowl**

With the bringing in of the Yule Log and the Wassail Bowl, the reading of Dicken's "Christmas Carol" and the distribution of appropriate gifts to all, Dr. Arthur A. Noyes entertained, at the Union on Christmas eve, 200 students, who were unable to be at their homes for Christmas.

The social room of the Union was lavishly decorated with Christmas greens, and the presents were given from a large tree, illuminated with red and green electric lights. Music was furnished by the Institute Orchestra and a quartet, composed of William B. Jenkins 1909, Clifford C. Heild 1910, Guy F. Schaffer 1910, and Charles L. Tuller 1912, who sang old English songs.

Assisting Dr. Noyes as a reception committee were Mrs. William Burton Rogers, wife of the founder of the Institute; Dean and Mrs. Alfred E. Burton; Professor and Mrs. H. G. Pearson; and Miss Morrill. The entertainment was in charge of the president's assistant, Harry A. Rapelye 1908; J. G. Reid 1908, M. R. Scharff 1909, and M. Flagg 1909.

After the playing of several selections by the orchestra and while the quartet were singing Robert Herrick's "The Song of the Yule Log," the huge Yule log was hauled in by the entertainment committee and placed in the fire-place.

Then, just as the quartet stopped singing, amid the tumultuous applause of the assembled students the bright flames from the crackling Yule log sprang up the chimney.

President Noyes then greeted the students in his usual quiet manner and after he had read Professor Bates acceptance of the invitation to hear himself read he called upon that gentleman who read Dicken's own shortened selection from the "Christmas Carol."

After he had finished, J. G. Reil 1908, as Santa Claus, presented everyone present with a gift. To several, special gifts were given, most of them being knocks upon the people to whom they were given. To Dean Burton was presented a bottle of unknown liquid; to Prof. Pearson, an English composition with many intricate markings in red ink upon it; to W. B. Jenkins, a pair of boxers whom he couldn't possibly scare with his vocal selections; while to The Tech was given an automobile so that hereafter it could keep up with the times.

After the presentation of the gifts, the quartet appeared from the kitchen bearing upon their shoulders a mammoth wassail bowl, chanting as they came "The Wassail Bowl," from the tragedy of "Kyne Johan," 1550, the oldest wassail song known. The quartet bore the bowl to the dining room and they were followed by the rest of the guests. Refreshments were there served to everyone.

CALENDAR

SATURDAY, JAN. 2.

2:30 P. M.—Indoor track work at the Gym.

4:00 P. M.—Medley inter-course relay race at the Gym.

MONDAY, JAN. 4.

1:00 P. M.—Battalion officers meet in Union.

1:00 P. M.—Chess Club meets in 11 Pierce.

5:00 P. M.—Board of Editors of The Tech meet in 30 C.

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Friday, January 1, 1909.

Heartiest wishes for a Happy New Year are extended by The Tech to every one connected with the Institute.

At its first meeting of the year the Institute Committee brought forward a scheme for a system of uniform bulletin boards for the various buildings to relieve the present shabby conditions. It might reasonably be expected that these boards would now be in place, but such is not the case. It is to be hoped that the Institute Committee will not let much of the New Year slip by without seeing that the bulletin boards are placed.

In the last issue of the Columbia University Quarterly appears an article on "The Call to Professional Service," which is well worth reading and taking to heart by every Technology student. While in the main the article treats of all the professions with some emphasis on the "more liberal" ones, nearly every word of it applies specifically to engineering as well. The main idea stated is, that the more advantages a man has, the more benefit he should return to the world which made them possible for him. Entrance in the professions implies possession of superior opportunities and ability, and for the former at least he owes something. In these mercenary days, such a clear presentation of the duties of the superior to the inferior is both refreshing and valuable.

In closing, the author states his theme as follows:—

"The call to professional service comes to you young men in the form of imperious command. If it were the call to arms in defense of your country you would respond by tens and hundreds, and not one of you would falter whithersoever your duty led. This call to service which I voice today comes to you from your countrymen who are engaged in that everlasting war with sin and ignorance and greed and selfish ambition. They call on you to equip yourself for leadership and they confidently expect you to stand forth when your time comes, fully prepared to merit the confidence they would place in you. They have put at your command all the resources of this university, an institution which brings to you the wisdom of the ages and lines you up with the great men who have preceded you here during the past century and a half. It is an inspiring company of leaders in statecraft, theology, law, medicine, business, engineering, and in all arts and sciences of every field. No one of those whom we today call great, no one whose life we would set up as a measure of our own, has failed to respond to that appeal in the cause of righteousness which comes to you today in the call to professional service."

Announcement is made of the engagement of Miss Mary Butler, daughter of Hon. William A. Butler of Georgetown, Mass., to Mr. Lester D. Poor 1910, Course VI.

POINT SYSTEM COPIED

Phillips-Exeter Follows Tech in Limiting Office-Holding

At a recent meeting, the School Council of Phillips Exeter Academy adopted the following resolution:—

"RESOLVED, That the Student Council recommends that no one student should hold more than one major office in any one year."

The recommendation was passed with the expectation that the school as a whole will enter into the spirit and that public opinion would be sufficient to enforce it. It will be noticed that this is based on the same idea as the point system, established at Technology last fall, but does not reach so fine a point.

LABORATORY CROWDED

Electrical Department Needs More Room for More Equipment

In spite of the ample scale of the accommodations originally provided to meet the needs of the classes in electrical engineering, the department is becoming quite cramped for a sufficient number of class rooms and for a proper amount of space in the laboratories. The present Electrical Engineering Laboratory is 270 feet in length and 40 feet in width, and every bit of available space is at present occupied, giving some idea of the necessary size of the new laboratory which will have to be constructed when the Institute moves to a new site. With the continuation of the present percentage increase in the number of students taking the course in electrical engineering, equal in the case of this year's class to 20 per cent over that of last year, a new laboratory would necessarily be much greater in magnitude than the present one. The work in the laboratory spoken of above is independent of and supplementary to that going on in the standardizing laboratory, high potential laboratory, laboratory of photometry, etc., all of which are even more cramped for suitable room. The equipment, however, has advanced far ahead of the space provided and the department probably has the largest and most complete equipment of the machinery and instruments of any institution in the country, and is, moreover, constantly adding new apparatus to this extensive collection.

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PLAY WILLIAMS NEXT

Berkshire Basket Ball Team Will Be Hard Proposition

Technology's basketball team will play Williams College next Saturday at Williamstown. Williams is said to have the fastest team in the East. All but one of last year's crack team are back at college and are in the game this year. However, the Institute team has shown itself to be a winning aggregation by defeating Dartmouth 26 to 22 on their own floor, this being the first defeat on the home floor in eight years. Tech's weak point formerly has been a lack of staying power for the last part of the game and with this point strengthened there is a good chance for the Institute team to go through the season with a clean slate.

Williams' new man is Clark, a freshman who is playing a fine game at guard. The other men on the team who are all veterans are:—Horrax, center; Templeton, guard; and Lamby and Lewis, forwards. Tech's lineup will be the same as against Dartmouth last month.

ON APPRENTICESHIPS

Effect of Unions is to Lessen Amount of Skilled Labor

Unions and their effect on various institutions are questions that Tech men are interested in, because they will frequently be met in practical life.

The following extract from a communication from J. K. Turner pertains to the relation of the Union and apprenticeships.

Twenty years ago the man who received \$1.50 a day was immeasurably more able to cope with his personal problem than is the man who receives \$2.50 today. All this notwithstanding our vast natural resources and the magnificent development of our industries through combinations and the inventions of labor saving devices. What, then, is the reason thereof?

As a thought in this connection, we desire to refer to Prof. Eliot's statement that "union labor is the parent of Child Labor because," he says, "a child of twelve is unfitted to become a skilled laborer, and as a consequence, takes a position in life in which there is little hope for advancement," which means that owing to the seriousness of the financial problem in each family, the pressing needs of the growing children being so great, each member of that family is forced to become a wage earner at the earliest possible date, regardless of his physical or mental qualifications thereto.

Again, while the avenues of skilled mechanics are rapidly thinning out, the ranks of unskilled labor are becoming overcrowded, and the unalterable law of supply and demand forces up the price of the product of skilled labor. Statistics show us that the influx of skilled mechanics from other countries in the last twenty years has been greatly out of proportion to the creation of skilled mechanics through the apprenticeship system.

The apprentice under the present system of union labor would be the creature of the union and not of the shop, and consequently employers while they recognize the necessity for apprentices, advance the argument with some degree of justice, that their experience with the union mechanic, dominated by the union leader, is such that they cannot afford to harness themselves with a lot of young men over whom they have absolutely no control and who look up to the union for protection and advancement.

This condition makes it all the more imperative that parents interest themselves in developing the best in their child so that their children can take advantage of such education as we are able to afford them and apply it to their individual needs and necessities in after life. This is the only method by which we can hope to make any advancement under the system now in vogue, and it will also go a great way toward reforming the entire curriculum of our public school system.

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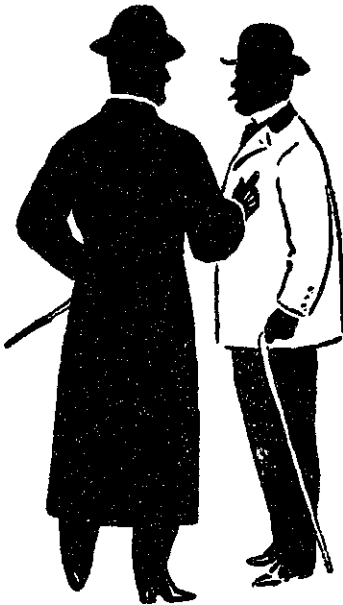
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INTERCOURSE RACE

(Continued from page 1.)

miles and 220-yard hurdlers at the Institute; and W. J. Pead, who excels over the high hurdles. The freshmen also have a team of electrical engineers. They are:—N. G. Herreshoff and F. J. Shepard of the relay team; F. H. Busby, the English High School miler; and A. G. Campbell.

If four teams are on the floor tomorrow there may be two races. Otherwise the winner of tomorrow's race will race the Course I seniors next Wednesday, and the losers will race later on. The series will be continued till each team has raced all the others, so as to give all the men as much indoor racing as possible. This work will prove the best possible training for the men who wish to run in the B. A. A. games and the Lawrence Light Guard meet.

INDOOR MEET ENTRIES

Entries for the annual indoor meet will be received till next Friday afternoon, but the men are asked to enter as soon as possible. The book is at the head of the stairs, near the Cage. There is no entry fee, except an admission ticket. These will be put on sale during the week.

This is one of the two meets that determine the class championship of the Institute. The second is held in April and the total points made by each class in both meets are compared. Four places are counted and each point winner gets his numerals. Winners of first places will receive cups and the insignia "aTa."

TECH MEN TAKE STOCK

Are Working on Inventories for Telephone Co. and State

The inventory of the New England Telephone Company is being carried on for the most part by graduates of the department. The work is being done under the supervision of Dr. H. E. Hayes 1890, whose first assistant is Mr. V. E. Bird 1908.

The work for the Massachusetts Highway Commission on the other hand is being conducted by Professor D. C. Jackson. Professor Jackson is assisted by his office manager, Mr. G. A. Rodenquist, who is a graduate of the department, and by several recent graduates.

NOTICES

THE TECH—Meeting of the Board of Editors in 30 C, at 5 P. M., Monday.

GLEE CLUB—Rehearsals next week, Tuesday and Friday at 4.15 P. M.

CHESS CLUB—A meeting of the club members will be held in 11 Pierce, Monday, Jan. 4, at 1 P. M. F1

POSTERS—All drawings for the poster competition must be left at the Cage on or before Saturday, Jan. 2. F1

UNION NIGHT—Will be omitted this week, but a program is arranged for next Friday night.

Y. M. C. A.—There will be no meeting Sunday night. The regular meeting will be held next week.

ADVERTISING MANAGEMENT—A meeting of all candidates for the advertising management will be held Monday in the show office at 4 P. M. F2

SENIORS—Considerable money has been subscribed for the New Year's eve entertainment which has not yet been paid in. Subscribers to this fund are asked to pay up at once as the committee does not wish to be considered as furnishing the entertainment.

BATTALION OFFICERS—There will be a meeting of the officers of the battalion Friday at 1 o'clock, in Room A, in the Union. All officers are requested to attend as the meeting is of the greatest importance. F1

FACULTY NOTICES

ECONOMIC GEOLOGY, 3rd YEAR—Study chapter on Gold and Silver, paying especial attention to the ore minerals. G. F. Loughlin. F1

CLASSIFIED ADS

Advertisements under this head are inserted at the rate of five cents a line of six words, payable in advance, and copy should be handed to the business manager the morning before publication day.

TUTORING in Mathematics and Science. Leave note at Cage for E. Q. Adams. F1

LOST—First year Math. book. Please leave at Cage and get 50 cents reward. G. Brooks. F1

LOST—On December 2: A small pocket-book, containing a dollar bill, some change, and a twenty-five ride ticket to Allston. Finder please leave at the Cage. F2

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